WE CLAIM:

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For use in apparatus for processing wire to cut the wire into sections and to expose section wire ends, the wire having an inner core and sheathing about said core, the apparatus including means for displacing the wire axially endwise, the combination comprising:

- multiple blade structures, including at least two of said structures that move adjacent one another as said two structure move relatively oppositely toward and away from said axis in directions generally normal to said axis.
- each of said two structures having first and second cutting edges,
- said cutting edges configured such that, c) the two said structures are moved relatively longitudinally in a primary mode, two of said cutting edges cut through the wire, and when said two structures are moved relatively longitudinally in a second mode, the remaining two of said cutting edges cut into the wire sheathing to enable stripping of the sheathing of the wire.

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2. The combination of claim 1 wherein at least one of said two structures defines first shoulders elongated longitudinally and forming a space between which the other of said two structures extends during said relative movement.

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first shoulders are laterally spaced apart and face one another, and said other of said two structures has second shoulders also elongated longitudinally and extending in proximity with said first shoulders during said relative movement.

4. The combination of claim 1 wherein said apparatus includes actuating means for relatively moving said two structures as defined, and including programming means operatively associated with said apparatus to provide programmable strip depth of said sheathing.

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5. The combination of claim 3 wherein said other blade structure including a blade and a blade holder carrying said blade, said holder forming said second shoulders.

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6. The combination of claim 1 wherein each of said structure extends at opposite sides of said axis.

7. The combination of claim 1 wherein said blade structures include blade plates having said cutting edges, said blade plates extending in close, parallel, overlapping relation during said relative movement.

8. The combination of claim 7 wherein said cutting edges on two of said overlapping plates provide V-shaped edge portions that overlap when the blade plates are moved in said secondary mode during said relative movement.

9. The combination of claim 3 wherein said first and second shoulders extend in endwise alignment with one another during said relative movement.

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10. The combination of claim 3 wherein said first and second shoulders extend in laterally overlapping relation during said endwise movement.

support means for said blade structures for holding the blade structures in fixed positions on the support means, each blade structure comprising two discrete blade plates, one plate carrying one V-shaped cutting edge and the other plate carrying another V-shaped cutting edge.

12. The combination of claim 11 including loading means for loading at least one blade structure into said support means.

13. The combination of claim 10 including retainers carried by the support means for holding the blade structures attached in fixed positions on the support means, and to allow release of the blade structures from the support means, enabling their selective replacement.

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- 14. In wire processing apparatus wherein wire is moved endwise along a travel path, the combination comprising:
- a) blade pair means including two bladestructures each extending at opposite sides of the wire travel path,
  - b) at least one drive means,
- between said drive means and said blade structures, and responsive to operation of the drive means to cause one blade structure to be relatively displaced in direction A toward said path as the other blade structure is relatively displaced in direction -A, to process the wire, and subsequently to cause said one blade structure to be relatively displaced in direction -A, as said other blade structure is relatively displaced in direction A,

2 The combination of claim 14 wherein each said blade structure includes two blades. 5 The combination of claim 15 wherein said - 8 two blades respectively face in direction A and -A. . 9 # **10** ...11 12 The combination of claim 14 wherein each 17. of said two blades has a generally V-shaped cutting edge. 14 15 16 17 18 19 20 21

to process the wire.

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18. In the method of processing wire wherein the wire is moved endwise along a travel path, the steps that include

- a) providing blade pair means including two blade structures each extending at opposite sides of the wire travel path,
- b) providing at least one drive means, and other means operatively connected between the drive means and the blade structure,
- one blade structure to be relatively displaced in direction A toward said path as the other blade structure is relatively displaced in direction -A, to process the wire, and subsequently to cause said one blade structure to be relatively displaced in direction -A, as said other blade structure is relatively displaced in direction A, to process the wire.

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first and second cutting edges of one structure have different configurations, and the first and second cutting edges of the other structure have different configurations, the first cutting edge of the first structure having substantially the same configuration as the second cutting edge of the second structure, and the second cutting edge of the first structure having substantially the same configuration as the second cutting edge of the first structure having substantially the same configuration as the first cutting edge of the first structure.

20. The combination of claim 19 wherein the first cutting edge of the first structure has C-shaped C<sub>1</sub> and the second cutting edge of the first structure has C-shape C<sub>2</sub>, and where C<sub>1</sub> is larger in size than C<sub>2</sub>.

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